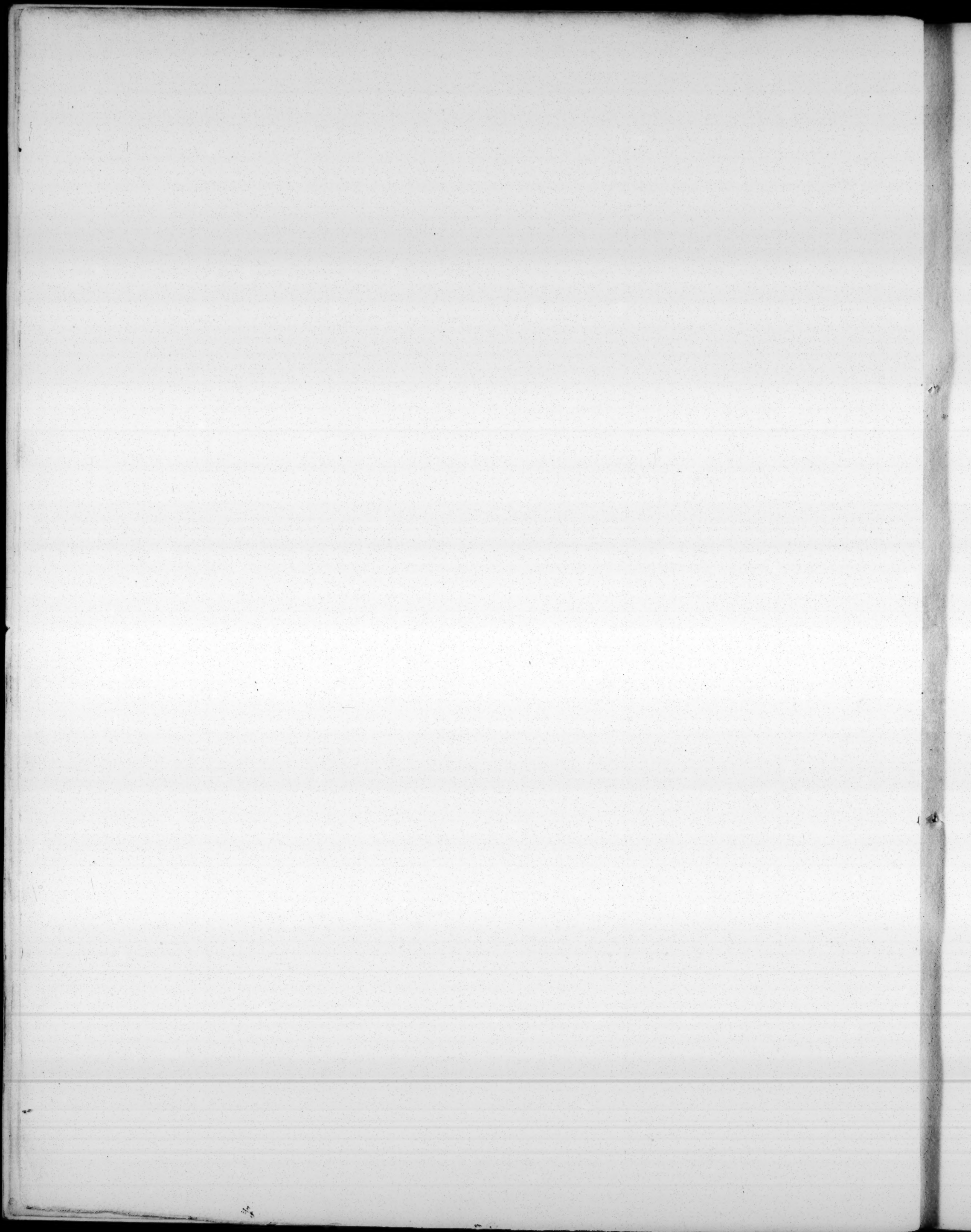


A  
SPECIMEN  
OF THE  
BOTANY  
OF  
NEW HOLLAND.







824

A  
SPECIMEN  
OF THE  
BOTANY  
OF  
NEW HOLLAND,

BY  
JAMES EDWARD SMITH, M. D. F. R. S.

MEMBER OF THE ROYAL ACADEMIES OF TURIN, UPSAL, STOCKHOLM AND LISBON;  
CORRESPONDENT OF THOSE OF MONTPELLIER AND DAUPHINY, &c. &c.

PRESIDENT OF THE LINNEAN SOCIETY.

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THE FIGURES BY JAMES SOWERBY, F. L. S.

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"Tendebantque manus ripæ ulterioris amore." VIRG.

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VOL. I.

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M.DCC.XCIII.



184



TO

THOMAS WILSON, ESQ. F. L. S.

AT WHOSE PERSUASION

THIS WORK WAS UNDERTAKEN,

AND

ON WHOSE FRIENDLY COMMUNICATIONS

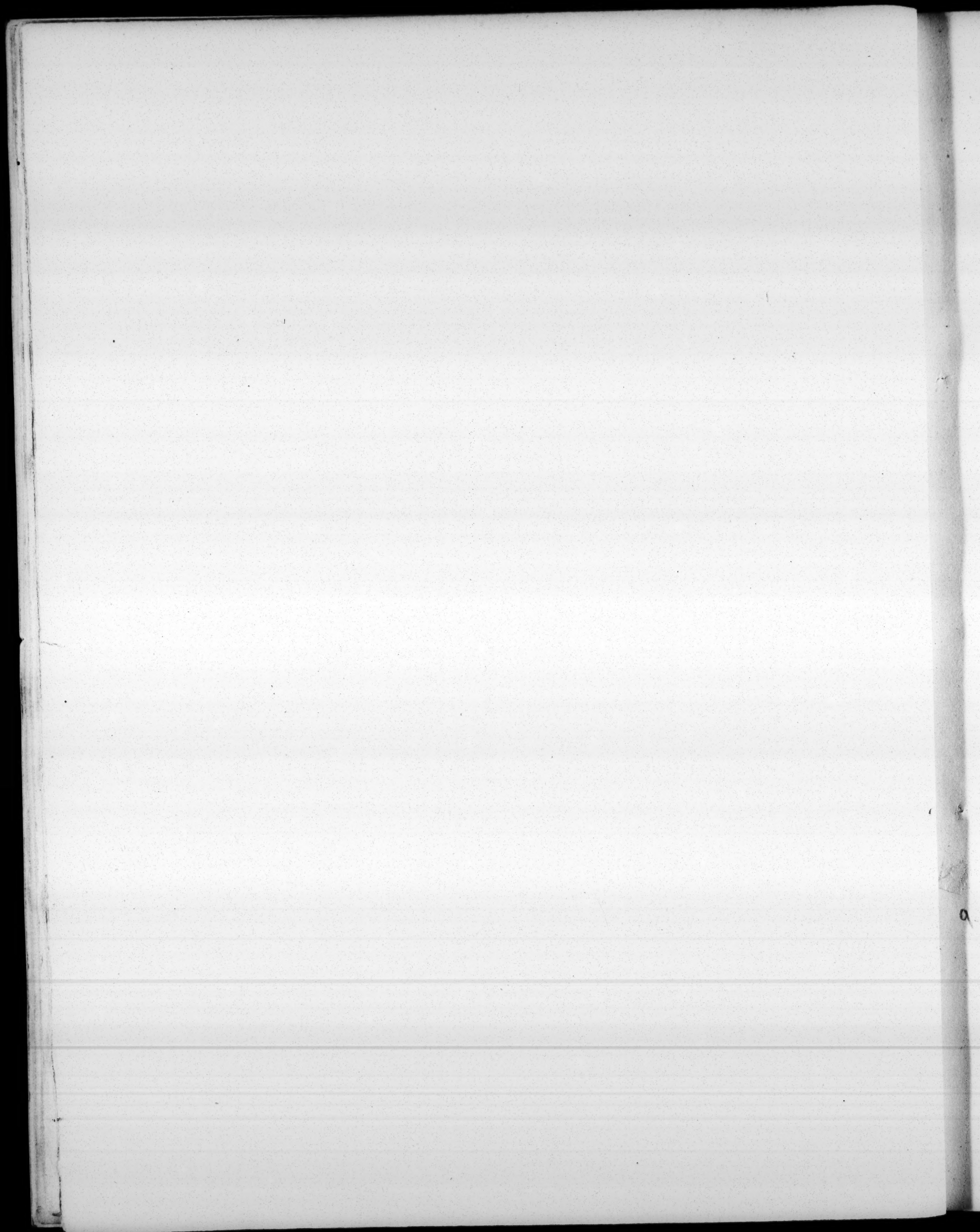
IT IS FOUNDED,

THE FOLLOWING PAGES

ARE INSCRIBED

*BY THE AUTHOR.*







## P R E F A C E.

AN attempt to make the Public acquainted with some of the productions of a country of which they have lately heard so much, and in which they are now as a nation so deeply interested—a country too so extremely unlike all those best known to Europeans, cannot fail to be acceptable, however imperfect in its extent. The present work must be considered only as, what it pretends to be, a *Specimen* of the riches of this mine of botanical novelty. It may inform the cultivators of plants concerning what they have already obtained from New Holland, as well as point out some other things worthy of their acquisition in future. As the author intends it for the use of his countrymen and countrywomen, it is written in their own language—a language every day growing more universal, and which many circumstances now seem to point out as likely to become the most so of any modern one.

The



The essential characters alone are given in Latin, as well as in English. The figures are taken from coloured drawings, made on the spot, and communicated to Mr. Wilson by John White Esq. Surgeon General to the Colony, along with a most copious and finely-preserved collection of dried specimens, with which the drawings have in every case been carefully compared.

December 1793.











## BILLARDIERA scandens.

*Climbing Apple-berry.*

## PENTANDRIA MONOGYNIA.

GEN. CHAR. *Petala* quinque, foliolis calycinis alterna.  
*Nectarium* nullum. *Stigma* simplex. *Bacca* supera,  
 polyperma.

*Petals* five, alternate with the leaves of the calyx.  
*Nectary* none. *Stigma* simple. *Berry* superior, with  
 many seeds.

SPEC. CHAR. B. pedunculis folitariis unifloris, foliis  
 subhirsutis.

Flower-stalks solitary, single-flowered. Leaves some-  
 what hairy.

---

AMID all the beauty and variety which the ve-  
 getable productions of New Holland display in such  
 profusion, there has not yet been discovered a propor-  
 tionable



tionable degree of usefulness to mankind, at least with respect to food. This is our first and most natural enquiry in a scene of such novelty; but it is an enquiry natural to all the lower orders of sensible beings, as well as to man. It may perhaps mortify his pride to think how much more quickly and certainly inferior animals judge upon such a subject. Their powers however reach no farther. It is the peculiar privilege of reasoning man, not only to extend his enquiries to a multiplicity of attainable benefits to himself and his species, besides the mere animal necessity of food, but also to walk with God through the garden of creation, and be initiated into the different plans of his providence in the construction and œconomy of all these various beings; to study their dependencies upon one another in an infinitely complex chain, every link of which is essential; and to trace out all those various uses and benefits to every branch of the animal creation, of which each animal is a judge only for himself. In this point of view no natural production is beneath the notice of the philosopher, nor any enquiry trifling under the guidance of a scientific mind.

In compliance however with those who do not look so deep into natural knowledge, we here introduce to their acquaintance almost the only wild eatable fruit of the country we are about to illustrate. It may serve as an olive-branch, to procure their patience as we proceed together hereafter through the consideration of  
less



less conspicuously interesting objects. Nor will the scientific botanist find the plant before us unworthy of his most accurate attention.

Its genus is easily characterised in the Linnæan system by the many-seeded berry above the flower, and may stand somewhere between *Escallonia* and *Mangifera*. We cannot certainly tell what genera are its natural allies, especially as we have no knowledge of the fruit and seeds except from a drawing. May it be akin to the *Capparides* of M. de Jussieu?

The name *Billardiera* is given it in honour of James Julian la Billardiere, M. D. F. M. L. S. now engaged as botanist on board the French ships sent in search of M. de la Peyrouse. His *Icones Plantarum Syriæ rariorum*, the fruits of a journey to the Levant in 1786, justly entitle him to such a distinction.

We have acquired two species of this genus from New South Wales. The *root* of the present is woody and zigzag, with a reddish inner bark. *Stems* several, twining among other shrubs, branched, woody, round, downy when young, destitute of leaves except on the young branches. *Leaves* alternate, sessile, lanceolate, bluntish, mostly entire, but undulated and revolute in such a manner as to appear dentated, which they sometimes really are, paler beneath, slightly veined, most hairy when young. *Stipule* none. *Flowers* solitary, enveloped in long leaves, terminating the young branches, on short downy *footstalks*, drooping, of a pale lemon-colour,  
without



without *bractæ*. *Calyx* regular, of five equal, narrow, pointed, leaves, hairy and ciliated. *Petals* five, twice as long, equal, lanceolate, pointed, attenuated at the base, inserted into the receptacle. *Stamina* five, as long as the calyx, and opposite to it, equal, subulate, smooth. *Antheræ* arrow-shaped. *Germen* altogether superior, oblong, very hairy. *Style* short, erect. *Stigma* simple. *Berry* cylindrical, yellow, very obtuse at both ends, downy, terminated by the permanent style, and said to have a very fine flavour, not unlike a roasted apple. *Seeds* numerous, horizontal, blackish.

#### EXPLANATION OF TAB. I.

1. Calyx. 2. A Petal. 3. Stamina and Pistillum.  
4, 4. Ripe Fruit. 5, 5. Footstalks. 6. Seeds.









*Tetralthea juncea.*



## TETRATHECA juncea.

*Rushy Tetratheca.*OCTANDRIA MONOGYNIA. *Fl. complete.*

GEN. CHAR. *Cal.* quadrifidus, inferus. *Cor.* tetrapetala.  
*Capsula* bilocularis, bivalvis; valvulis medio septiferis.  
*Semina* fubbina.

*Cal.* four-cleft, inferior. *Cor.* of 4 petals. *Caps.* of  
 two cells and two valves, with the partition from  
 their middle. *Seeds* about two in each cell.

SPEC. CHAR. *T.* glabra, foliis alternis lanceolatis, caule  
 acutangulo, ramis elongatis nudiusculis.

Smooth. Leaves alternate, lanceolate. Stem with  
 sharp angles. Branches elongated, and almost naked.



TO this pretty genus, three species of which have  
 been sent from New South Wales, we have given the  
 name *Tetratheca*, on account of the curious structure of  
 its



its *antheræ*, each of which consists of *four cells*, communicating with one common tube, the excretory duct of the pollen. In the construction of this name we run counter indeed to a precept of Linnæus (*Crit. Bot. p. 44*), and we do so because in that instance we think him in the wrong. After objecting, with reason, to generic names too similar in sound to each other, he is somewhat unmerciful in stigmatizing almost all that have any syllables in common, and wonders at Vaillant for using the termination *theca* at all. The word surely in itself is unexceptionable; and as all the generic names of Vaillant constructed with it, even *Tetragonotheca* (which Linnæus at first retained), are now laid aside, and therefore there can be no ambiguity, we hope to be excused for adopting *theca*, as it so precisely suits our purpose.

*Tetratheca* probably belongs to M. de Jussieu's order of *Ericæ*, not indeed that it answers well to his characters of that order, but it is allied to some of its genera, especially *Pyrola*. All its species are small shrubs with red flowers (varying to white), which retain their colour when dried.

*Tetratheca juncea* has a small woody root, which has some appearance of that of an annual plant. The stem is much branched, even from the base; the branches alternate, long and slender, very acutely triangular, and almost winged. Leaves mostly small and not numerous, alternate, lanceolate, entire. Stipulæ none. Each branch produces



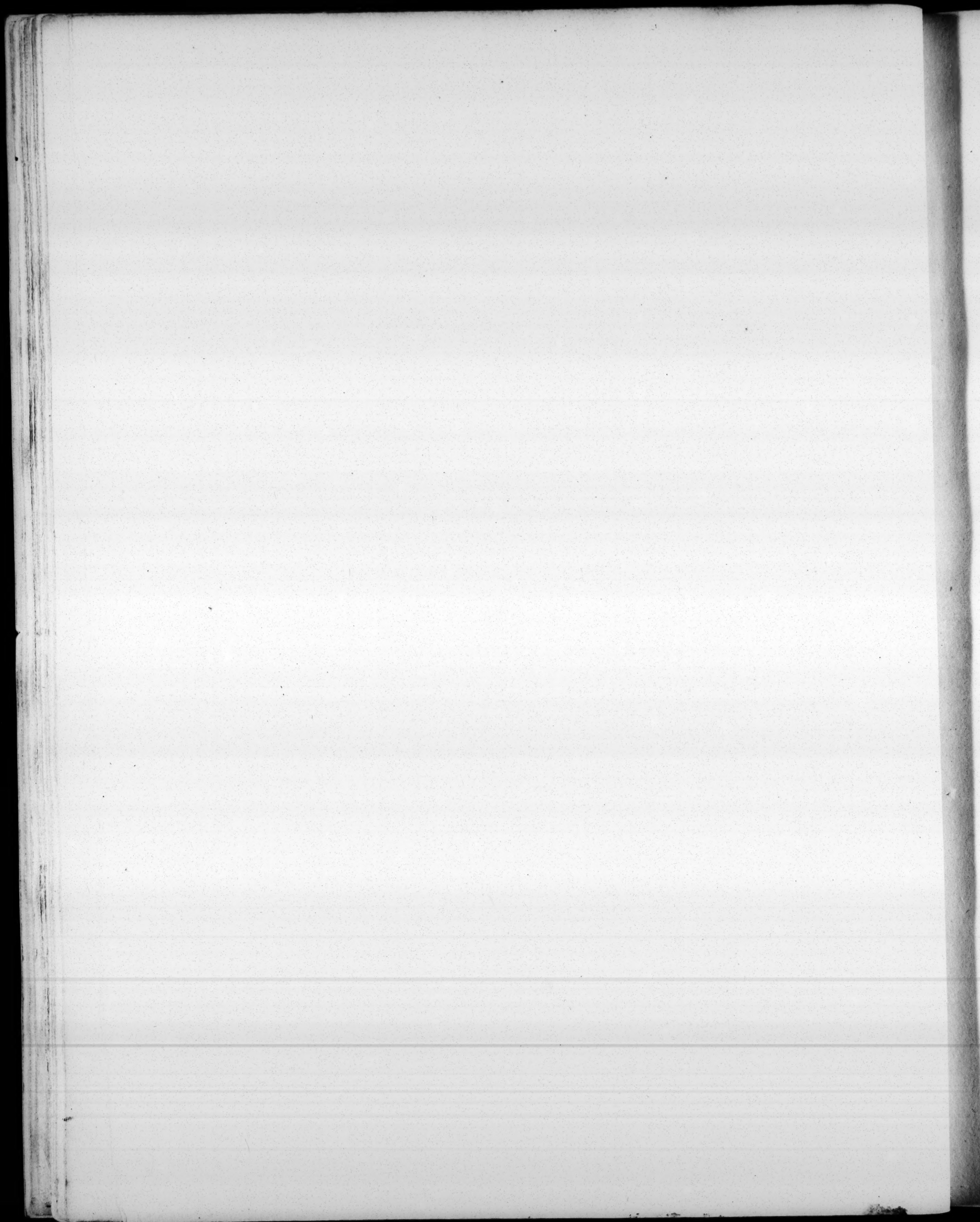
produces a simple series of drooping *flowers*, in a racemose order, on simple capillary red footstalks, with a small leaf at the base of each. *Calyx* deeply cloven, obtuse. *Petals* obovate, crimson, paler on the outside, entire. *Stamina* equal; the *filaments* very short; *antheræ* slightly curved, with four blunt angles, and four furrows, brown, tipped with a pale simple tube, into which the four cells of the *anthera* open. *Germen* very small, obovate, compressed. *Style* short and simple. *Capfule* pendulous, obovate, compressed, pointed. *Seeds* two in each cell, one above the other, cylindrical, standing on a white twisted pedicle.

Every part is smooth. We have specimens of a variety with white petals, but the calyx and footstalk remain red.

#### EXPLANATION OF TAB. II.

1. Calyx and Footstalk.    2. Petal.    3. Stamina.
4. A Stamen magnified.    5. The same cut across.
6. Capfule.    7, 7. Seeds.







800 L





*Ceratopetalum gummiferum*



## CERATOPETALUM gummiferum.

*Three-leaved Red-gum Tree.*

## DECANDRIA MONOGYNIA.

GEN. CHAR. *Cal.* 5-partitus, staminiferus, persistens.  
*Petala* 5, pinnatifida. *Antherae* calcaratae. *Caps.* in  
 fundo calycis, tecta, bilocularis.

*Cal.* 5-cleft, bearing the stamina, permanent. *Petals*  
 5, pinnatifid. *Antherae* with a spur. *Caps.* in the bot-  
 tom of the calyx, covered, two-celled.

---

WHEN a botanist first enters on the investigation  
 of so remote a country as New Holland, he finds himself  
 as it were in a new world. He can scarcely meet with  
 any certain fixed points from whence to draw his ana-  
 logies; and even those that appear most promising, are  
 frequently in danger of misleading, instead of informing  
 him. Whole tribes of plants, which at first sight seem  
 familiar to his acquaintance, as occupying links in Na-  
 ture's chain, on which he has been accustomed to de-  
 pend,



pend, prove, on a nearer examination, total strangers, with other configurations, other œconomy, and other qualities; not only all the species that present themselves are new, but most of the genera, and even natural orders.

The plant before us justifies the above remarks. Its botanical characters are so new, we can scarcely tell to what tribes it is allied; and although, from the peculiar felicity of the Linnæan sexual system, founded on parts which every plant *must* have, we are at no loss to find its class and order in that which is an artificial system, we still scarcely know what genera are its natural allies. It, however, seems most nearly related to *Dictamnus* and *Ruta*, of all the Decandria Monogynia, and may be safely inserted near them. We dare not positively say it belongs to M. De Jussieu's natural order of *Rutaceæ*, but for the present it may be so considered, till future discoveries shall authorise us to constitute a new one. The generic character above given certainly distinguishes it from all other genera, and the name applies to the very unusual horn-like divisions of the petals, like those in the leaves of the *Ceratophyllum* of Linnæus. One species only is already known.

This, Mr. White informs us, is one of the trees (for there are several, it seems, besides the *Eucalyptus resinifera*, mentioned in his Voyage, p. 231.) which produce the red gum. He further remarks, that it is the only wood of the country that will swim in water.

The



The tree is of a considerable height, upright, much branched, and of a beautiful appearance when the flowers are come to maturity, or rather about perfecting their seed, as in the specimen here figured. Every part is quite smooth. *Branches* opposite, round, slightly angular at the top. *Leaves* opposite, on footstalks, ternate. *Leaflets* sessile, nearly equal, lanceolate, obtuse, serrated, veiny, shining, paler beneath. *Stipulae* none. *Panicles* terminal, first oppositely, and then alternately branched, with a small pointed glutinous bractea at the base of each partial flower-stalk. *Flowers* at first expanding small, but the calyx afterwards becomes much enlarged, whitish, tinged with red, and all their parts continue permanent till the fruit is ripe. The *Calyx* is inferior, five-cleft; its segments lanceolate, acute, slightly ribbed; its margin at the base of the segments surrounded with a ring bearing the petals and stamina, as in icofandrous plants. *Petals* alternate with its segments, at first equal to them in length, then much shorter, irregularly and unequally pinnatifid; their divisions linear and acute. *Stamina* shorter than the petals, awl-shaped. *Antherae* roundish, of two oval cells, and with a spur at their base. *Germen* in the bottom of the calyx, globular, ten-ribbed. *Style* awl-shaped, short. *Stigma* cloven, acute. *Capsule* in form like the germen, small, with a coriaceous covering, originally two-celled, but one side seems always abortive, and the seed in the other pushes the partition from the centre.

We



We have only seen the fruit half ripe, and the imperfect seeds were withered, but they appear to be solitary.

EXPLANATION OF TAB. III.

1. A bunch of young flowers, of their natural size.
2. The more advanced calyx laid open, with its petals and stamens in their proper situations.
3. A petal and stamen separate.
4. The same magnified.
5. Back of the filament and anthera.
6. Germen in a young state.
7. Its coriaceous covering.
8. Stigma.
9. Germen somewhat farther advanced, cut across to show the cells.

T A B.



03L,





*Banksia spinulosa.*



## BANKSIA spinulosa.

*Prickly-leaved Banksia.*

## TETRANDRIA MONOGYNIA.

GEN. CHAR. *Receptaculum commune* elongatum, squamofum. *Cor.* tetrapetala. *Stamina* limbo inserta. *Capsula* bivalvis, disperma, interjecto feminibus dissepimento mobili.

*Common receptacle* elongated, scaly. *Cor.* of 4 petals. *Stamina* inserted into the limb. *Capsule* with two valves, two seeds, and a moveable partition between them.

SPEC. CHAR. *B. foliis* linearibus revolutis mucronulatis apicem versus denticulato-spinosis.

Leaves linear, revolute, with a little sharp point, and with spinous denticulations towards the top.

---

THIS hitherto non-descript species of *Banksia* has a woody branched stem, the *branches* commonly three or more together, curved upwards. *Leaves* irregularly scattered, closely covering the branches, on very short footstalks, but little spreading, from an inch and half to two inches in length, linear, very narrow, revolute in the margin, green and smooth above, white and downy beneath, ending very abruptly, tipped with

E three



three little spines, and having several of the same kind hooked upwards, in the margin, particularly towards the top. The young leaves are very downy. *Flowers* thick set in a cylindrical erect spike, arising from the divarications of the branches. Their common receptacle is cylindrical, rather obtuse, covered with closely imbricated downy scales, some of the lowermost of which terminate in a long downy pointed arista, and from among the rest the flowers come out in pairs. The structure of the flower is well expressed in the annexed plate. We suspect the fruit figured in Mr. White's Voyage, page 225, fig. 1, may belong to this species, but we have no positive authority to assert it.

Our *Banksia spinulosa* differs from *B. ericæfolia* of Linnæus (*Herb. Linn.*) in having leaves at least four times as long, obtuse, but with a small central sharp point from the mid-rib between the other two terminal points, as well as in having a greater or lesser number of small sharp-hooked lateral teeth towards the end of each leaf.

The natives of New South Wales call it *Wattangre*.

#### EXPLANATION OF TAB. IV.

1. A scale of the receptacle.
2. A flower unexpanded.
3. The same expanded.
4. Stigma.
5. Tip of a petal magnified, shewing one of the stamina in its natural situation.
6. Stamen separate.

T A B.



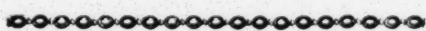
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*Goodenia ramosissima*



GOODENIA *ramosissima*.*Branching blue Goodenia.*PENTANDRIA MONOGYNIA. *Fl. of one petal, superior.*

GEN. CHAR. *Caps.* bilocularis, bivalvis, polysperma; diffepimento parallelo. *Semina* imbricata. *Cor.* supra longitudinaliter fissâ, genitalia exferens; limbo quinquefido, secundo. *Antheræ* lineares. *Stigma* urceolatum, ciliatum.

*Caps.* with two cells, two valves, and many seeds; partition parallel to the valves. *Seeds* imbricated. *Cor.* longitudinally cloven on the upper side, exposing the organs of fructification; limb five-cleft, leaning one way. *Antheræ* linear. *Stigma* cup-shaped, ciliated.

SPEC. CHAR. *G.* foliis lineari-lanceolatis subdentatis cauleque hispidis, stylo apice hirsutissimo, corolla extus pilosa.

F

Leaves



Leaves linear-lanceolate, slightly dentated, rough as well as the stem. Style very hirsute at the top. Corolla externally hairy.

SYN. *Goodenia ramosissima*. *Linn. Transf. Vol. II. 349.*

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WE refer the reader to the Linnæan Transactions above quoted for the history of this genus, which is named in honour of the Rev. Dr. Goodenough. Eight species are there enumerated, of which this is one of the most striking.

The stem is herbaceous, two or three feet high, much branched and straggling, round, rough with short stiff hairs, as are also the *leaves*. The latter are of a narrow lanceolate form, mostly entire, but sometimes dentated, and even sinuated. *Stipule* none. *Flowers* solitary, terminating the branches, and appearing in October. The plaits of the *corolla* are externally hairy. The *antheræ* very minutely bearded. *Style* very hairy in its upper part. The *fruit* of this species we have not seen ripe, but the enlarged *germen* is oval and hairy.

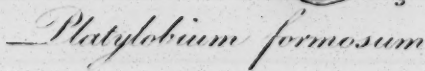
#### EXPLANATION OF TAB. V.

- 1, 2. Two different views of the Style. 3. Stamen.  
4. Anthera magnified.



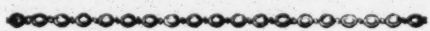
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## PLATYLOBIUM formosum.

*Orange Flat-Pea.*

DIADELPHIA DECANDRIA. *Stamina all connected together.*

GEN. CHAR. *Cal.* campanulatus, quinquefidus; laciniis duabus supremis maximis, obtusis. *Legumen* pedicellatum, compressum, dorso alatum, polyspermum.

*Cal.* campanulate, five-cleft; two upper segments very large and obtuse. *Pod* on a footstalk, compressed, winged along the back; feeds many.

SPEC. CHAR. *P.* foliis cordato-ovatis, germine piloso.

Leaves cordato-ovate. Germen hairy.

SYN. *Platylobium formosum.* *Linn. Transf. Vol. II. 350.*  
*Cheilococca apocynifolia.* *Salisb. Prod. 412.*

---



THIS genus may be found in the Linnæan Transactions along with the preceding, and it is needless to repeat the minute description there given of the species. It will be more useful to give the character of another species very lately received from New Holland, and which we at first considered as a variety of that here figured, but now believe them to be distinct.

PLATYLOBIUM parviflorum.

*P. foliis lanceolato-ovatis, germine glabro.*

Leaves lanceolato-ovate. Germen smooth.



THIS agrees with the preceding in habit, but the flowers are smaller and less beautiful; the leaves longer and narrower; the germen quite smooth.

Both these shrubs promise to be extremely ornamental to our greenhouses, as they produce abundance of bloom, and are among the most elegant of all their tribe.

EXPLANATION OF TAB. VI. *P. formosum*.

1. Calyx. 2. Bractææ. 3. Standard. 4. One of the Wings. 5. Keel. 6. Stamina. 7. Germen. 8. Ripe pod.



103L





*Embolanthus speciosissimus.*

London: Published Oct. 1. 1795. by T. Bowerby & Co. N. 2. Strand Place.



# EMBOTHRIUM speciosissimum.

*Great Embothrium, or Waratàh.*

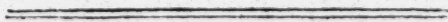


## TETRANDRIA MONOGYNIA.

GEN. CHAR. *Cor.* tetrapetala. *Stamina* limbo inserta.  
*Folliculus* polyspermus. *Semina* alata.

*Cor.* of 4 petals. *Stamina* inserted into the limb.  
*Follicle* containing many winged seeds.

SPEC. CHAR. *E. foliis* obovatis obtusis inæqualiter  
ferratis, *spicâ* subcapitatâ, *involucro* polyphyllo.  
Leaves obovate, obtuse, unequally ferrated. Spike  
somewhat capitate. *Involucrum* of many leaves.



THE most magnificent plant which the prolific soil  
of New Holland affords is, by common consent both  
of Europeans and Natives, the Waratàh. It is more-  
over a favourite with the latter, upon account of a rich  
honeyed juice which they sip from its flowers. Our  
figure was taken from a coloured drawing made from  
G the



the wild plant, compared with very fine dried specimens sent by Mr. White. Only one garden in Europe, we believe, can boast the possession of this rarity, that of the Dowager Lady de Clifford, at Nyn Hall, near Barnet, who received living plants from Sidney Cove, which have not yet flowered. The seeds brought to this country have never vegetated.

The shrub is 8 or 10 feet in height, with several wand-like simple round branches, covered with a smooth brown bark, and clothed with numerous large alternate leaves, without stipulæ. These *leaves* are from 4 to 6 or 8 inches long, obovate, not broad, blunt, but tipped with a small point, smooth and veiny, paler and even glaucous beneath, more or less serrated in their upper part with sharp unequal teeth, entire, and very much attenuated at the base, running down into a short rusty-coloured footstalk. A very dense simple spike or head of *flowers*, appearing in October, terminates each branch, surrounded at the base with an *involucrum* of many large lanceolate acute leaves, of a most splendid crimson, downy on their upper side. The flowers are very thickly set round a conical receptacle, each on its own footstalk of half an inch in length. The *petals* cohere together at their base, except at the back of the flower, where the style separates them early. The *antheræ* are reniform, slightly pedicellated, sheltered by a concavity in the tip of each petal. *Germen* pedicellated. *Style* incurved. *Stigma* large, obtuse. *Fruit* a coriaceous follicle, or pouch of one piece, cylindrical, smooth, recurved,



recurved, splitting longitudinally along its upper edge, and containing many flattened *seeds*, each furnished with a membranous lanceolate wing.

EXPLANATION OF TAB. VII.

1. A flower fully expanded.
2. 2. Antheræ.
3. Germen.
4. Stigma.
5. Follicle.
6. 6. Seeds.

All of their natural size.







B. L.





*Embotrium silaifolium*

London: Published Oct. 1. 1798. by J. Kneass & Co. 12. Mark Lane.



## EMBOTHRIUM filaifolium.

*Cut-leaved Embothrium.*

## TETRANDRIA MONOGYNIA.

GEN. CHAR. See Tab. 7.

SPEC. CHAR. E. foliis tripinnatifidis: laciniis decurrentibus acutis, floribus spicatis geminatis pedicellatis.

Leaves tripinnatifid; segments decurrent, acute.  
 Flowers spiked, standing in pairs, on footstalks.

---

OF this new and very singular species of Embothrium a plant brought from New Holland flowered last summer, for the first time, at Messrs. Grimwood's at Kensington, from which our figure was drawn; the fruit only was taken from native specimens.

The *root* is perennial, and prefers a light sandy soil. *Stems* somewhat shrubby, 3 or 4 feet high, erect, but little and alternately branched, round, slightly striated,  
 H leafy.



leafy. *Leaves* alternate, on longish footstalks, spreading, smooth, thrice divided into narrow, decurrent, sharp, entire segments, sometimes three-cleft, of a dark green colour, and firm rigid substance, much resembling the leaves of *Peucedanum Silaus*. The upper and lowermost are more simple. *Flowers* inodorous, in a long, loose, terminal, simple spike; standing in pairs, back to back, each on its proper footstalk, with one lanceolate sharp bractea in common to the two. *Petals* white, much spreading, and revolute at the tip. *Antheræ* two-lobed. *Germen* with three remarkable glands at the base of its footstalk in front. *Style* much incurved. *Follicle* oval, slightly carinated. The *seeds* we have not seen, but they should seem to be very few.

#### EXPLANATION OF TAB. VIII.

1. Corolla, the natural size.
2. Anthera.
3. Glands.
4. Germen.
5. Stigma.
6. Follicle after its seeds are discharged.





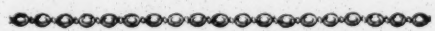




*Embothrium sericeum.*

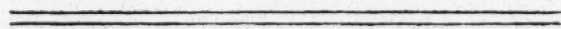


## EMBOTHRIUM fericeum.

*Silky Embothrium.*

SPEC. CHAR. E. foliis ternatis integerrimis revolutis  
 subtus fericeis, spica recurva, fructu tuberculato  
 glabro.

Leaves ternate, entire, revolute, silky beneath. Spike  
 recurved. Fruit tuberculated, not downy.



THIS shrub is said to form a bush four or five feet  
 in height. Our knowledge of it is entirely from dried  
 specimens and drawings, for it has not yet been raised  
 from any seeds brought to Europe. In New South  
 Wales it should seem to be not uncommon, flowering in  
 October.

The *root* is perennial, thick and woody. *Stem* very  
 much branched even from the bottom, round, the



younger branches angular, and clothed with fine silky down, as are likewise the flower-stalks, corollæ, and backs of the leaves. The *leaves* are for the most part ternate, covering the branches without any order, nearly sessile, the uppermost, or those which grow on the weaker branches, being simple. Their form is mostly elliptical, sometimes linear, always tipped with a minute very sharp point, entire, revolute, three-nerved, and veiny, the lateral nerves running in a very peculiar manner very near the margin and along the sharp edge made by its being turned in; upper surface bright green, smooth, and naked. *Stipulæ* none. *Spikes* terminal, solitary, short and dense, recurved, simple. *Flowers* on shortish, alternate, solitary, simple footstalks, all directed upwards, without *bractææ* or *involucra*. *Corolla* rose-coloured, silky without, clothed partly with very dense erect hairs within, and split about half way down into four segments. *Antheræ* small, yellowish, sessile in the hollow tips of the corolla, as in other species of this genus. *Germen* oval, green; *style* smooth, red; *stigma* hemispherical, smooth. *Follicle* oval, black, tuberculated, destitute of hair or down, brown within. *Seeds* two, flattish, attached by a very short wing to the upper end of the follicle.

There are three very remarkable varieties of this species, viz.

*α minor*. This is its most frequent appearance, and is what we have principally represented in the figure.



$\beta$  *major*. In all its parts twice as large, and somewhat less filky.

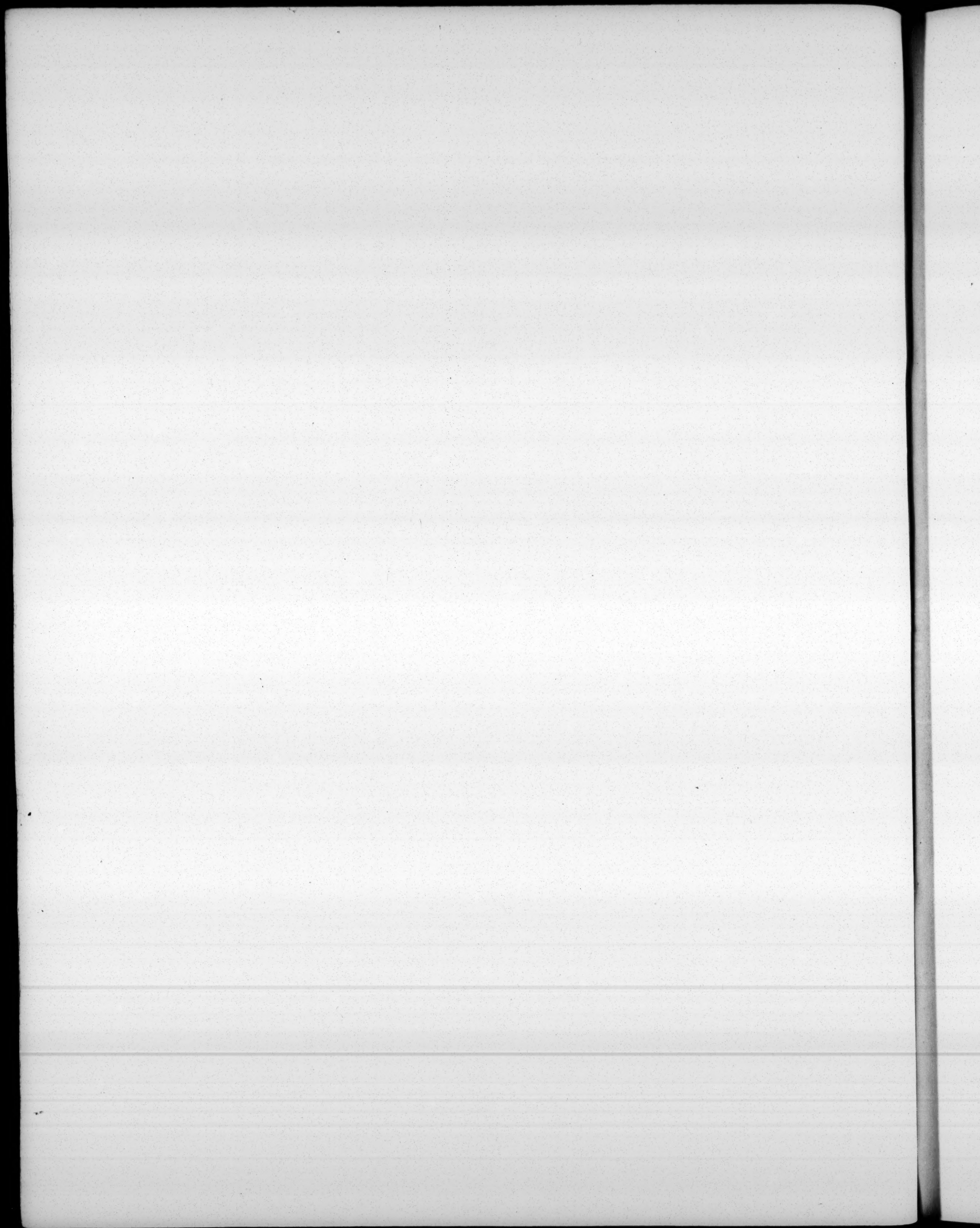
$\gamma$  *angustifolia*. With very long and linear leaves, and flowers like var.  $\alpha$ .

From the most attentive consideration it appears these, however different in appearance and even in the figure of their leaves, are really not specifically distinct.

#### EXPLANATION OF TAB. IX.

1. A Branch of var.  $\alpha$ . 2. A Flower. 3. Half-ripe Fruit. 4. A Seed. 5. Leaves of var.  $\beta$ . 6. Ditto of  $\gamma$ .







8 2 L





*Embolanthus laevis.*



## EMBOTHRIUM buxifolium.

*Box-leaved Embothrium.*



SPEC. CHAR. E. foliis ellipticis integerrimis revolutis supra scabris subtus pubescentibus, floribus umbellatis, fructu villoso.

Leaves elliptical, entire, revolute, rough above, downy beneath. Flowers in umbels. Fruit downy.

---

THIS, like the preceding species, is hitherto a stranger to our gardens. In its native country it flowers about November.

*Root* knobbed and woody. *Stem* much branched, three or four feet high; the branches round, clothed with harsh down, and thickly covered with very numerous alternate solitary *leaves*, about the size of those of box, almost sessile, elliptical, with a little sharp point, entire, revolute, but destitute of the lateral nerves observable in E. *sericeum*, veiny, dark green, very rough



above, with minute prominent tubercles, downy beneath. *Stipulae* none. *Flowers* numerous, in solitary terminal erect umbels, without *involucra*. *Flower-stalks* simple, round, thickly clothed with reddish brown hairs. *Corolla* clothed externally with the same coloured hairiness as the flower-stalks, and internally with white; its four segments cohere together, so that their four cells form one common cavity, destitute of hair, and of a brown colour, in which stand, in the form of a star, the four yellowish *antherae*, each of two cells. *Germen* oval, with a gland at its base, very hairy, as is the *style*; *stigma* lateral, a little below the pointed apex of the style, prominent, blackish, not hairy, rugged. *Follicle* ovate, gibbous, black, covered with white hair. *Seeds* two, each attached by a very short wing.

#### EXPLANATION OF TAB. X.

1. A Flower separate. 2. The same with the segments of its Corolla forcibly divided. 3. Anthera. 4. Pistillum. 5. Gland at the base of the Germen. 6. Ripe Fruit. 7. A Seed.



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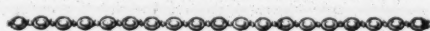




*Pimelia linifolia*



## PIMELEA linifolia.

*Flax-leaved Pimelea.*DIANDRIA MONOGYNIA. *Fl. inferior, of one petal, regular.*GEN. CHAR. *Cal. nullus. Cor. quadrifida. Stamina*  
*fauce inserta. Nux corticata, unilocularis.**Cal. none. Cor. four-cleft. Stamina* inserted into  
the orifice. *Nut* coated, of one cell.SPEC. CHAR. *P. foliis lineari-lanceolatis, capitulis ter-*  
*minalibus involucretis, corolla extus villosa.*Leaves linear-lanceolate. Heads of flowers terminal,  
furnished with an involucre. Corolla hairy on  
the outside.

---

THIS elegant shrub flowered in the greenhouse of  
Lord Viscount Lewisham, in February 1794. The same



species flowered the preceding year at Sion House. It is a native of the coast of New South Wales, among rocks, as we believe are all the species of *Pimelea*. The genus was first published by Forster in his *Nova Plantarum Genera*, and there called *Banksia*; but every species of which it is composed having been referred by the younger Linnæus to *Passerina*, and he having in the same work named another tribe of plants after Sir Joseph Banks, Gærtner, in restoring the original genus of Forster, adopted the name of *Pimelea* from the manuscripts of Dr. Solander. It is derived from *πιμελη*, fat, but is rather a pleasantly sounding, than a very apt denomination, unless there may be any thing oily in the recent fruit. In natural affinity *Pimelea* nearly approaches *Passerina* and *Daphne*, but their number of stamina being so very different, surely justifies us in keeping it separate from them. In this natural order we are not yet indeed quite clear upon what principles genera ought to be discriminated, and therefore dare not undertake to remove the great uncertainty in which all authors have left them.

*Pimelea linifolia* has a small zigzag root, from which arises a straight round smooth upright stem, branched irregularly for the most part, though sometimes appearing dichotomous, in consequence of the young branches springing in pairs from the upper part of the old flowering ones. The bark is reddish, cracking longitudinally; its inner layer remarkably silky, which is

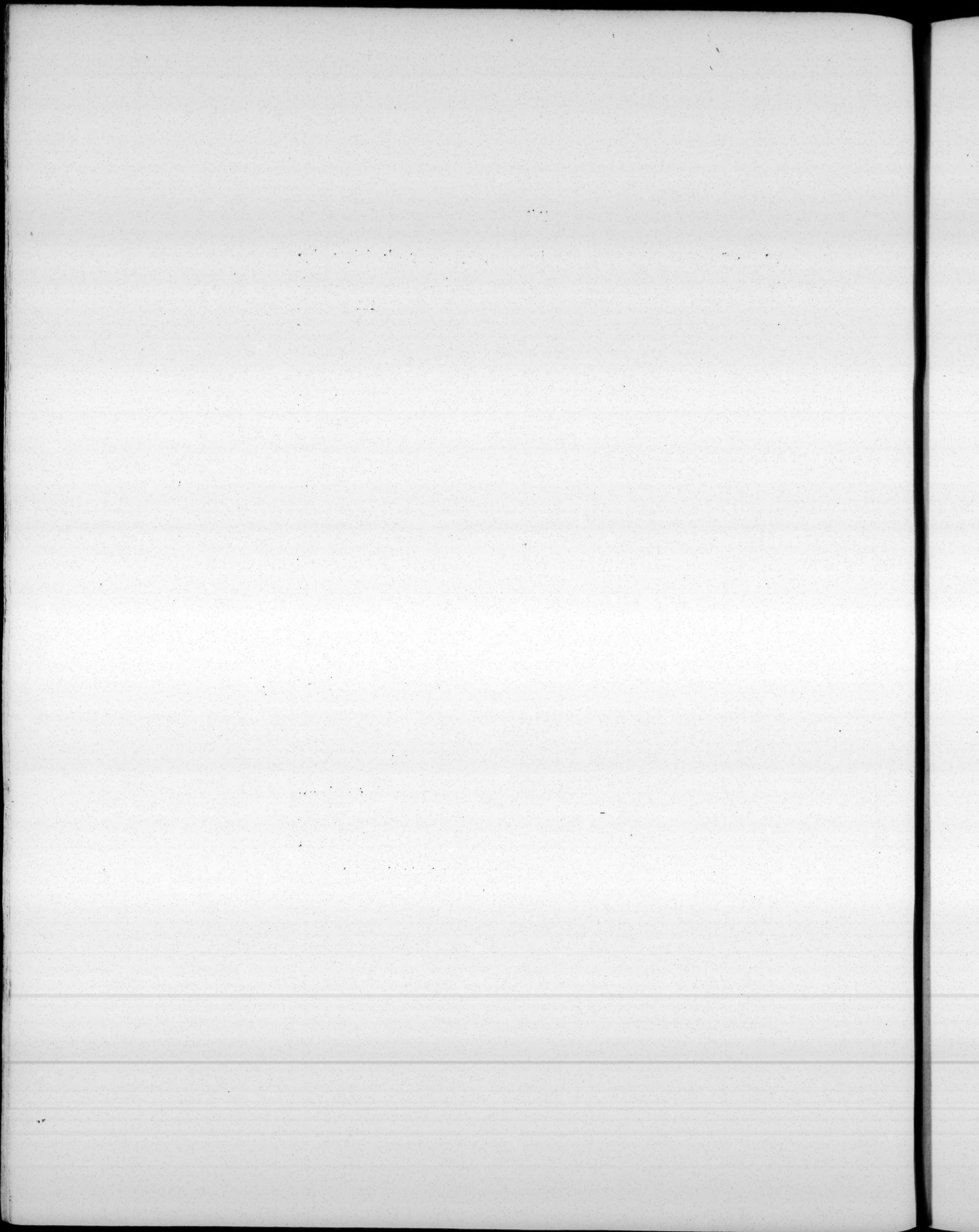


characteristic of this natural order. *Leaves* clothing the younger branches, opposite, on very short footstalks, slightly spreading, linear-lanceolate, varying much in breadth, sharpish, entire, with a simple nerve. *Stipulae* none. *Flowers* in terminal heads, numerous, inodorous. *Braçteæ* four broad ovate entire leaves, close to the flowers. *Corolla* very slender, tubular, snow-white, silky externally; the *limb* in four equal ovate spreading segments, with a red spot at the base of each within side. *Stamina* two, their filaments rather shorter than the limb, and inserted into the base of two of its segments, so that they are altogether without the tube, and not within it as in *Daphne*, *Passerina*, &c; *antheræ* oblong, yellow. *Germen* superior, oval, green, very small, smooth; *style* rather longer than the tube, simple and capillary; *stigma* capitate, very small. *Fruit* a small oval dry berry or rather *drupa*, invested with the permanent base of the corolla, and containing a solitary hard seed or nut. *Common receptacle* clothed with numerous white permanent hairs.

#### EXPLANATION OF TAB. XI.

1. A Flower entire. 2. The same opened, to shew the stamina and style. 3. Pistillum. 4. Common receptacle after the fruit has fallen. 5. Fruit invested with the permanent base of the corolla. 6. Fruit naked.







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*Pultenaea stipularis*



## PULTENÆA stipularis.

*Scaly Pultenæa.*DECANDRIA MONOGYNIA. *Fl. of many unequal petals.*

GEN. CHAR. *Cal.* quinquedentatus, utrinque appendiculatus. *Cor.* papilionacea: alis vexillo brevioribus. *Legumen* uniloculare, dispermum.

*Cal.* five-toothed, with an appendage on each side. *Cor.* papilionaceous; the wings shorter than the standard. *Pod* of one cell, with two seeds.

SPEC. CHAR. *P.* foliis linearibus mucronulatis subciliatis, stipulis solitariis binerviis laceris.

Leaves linear, tipped with a small point, slightly ciliated. Stipulæ solitary, two-nerved, lacerated.

---

NEW Holland abounds with papilionaceous plants, mostly belonging to new genera, and many of them having perfectly distinct stamina, which therefore can



by no means be admitted into the class *Diadelphia*, but must come next to *Sophora* in that of *Decandria*. The plant before us is one among several species which constitute one of the most distinct of these genera, and to which we have given the name of *Pultenæa* in order to commemorate the merits of a very amiable and deserving English Botanist, Dr. Richard Pulteney, F. R. and F. L. S., of Blandford in Dorsetshire, well known by his *Sketches of the Progress of Botany in England*, and more especially by his *Biography of Linnæus*.

This genus differs materially from the true *Sophoræ*, in having a roundish pod of one cell, and only two seeds, instead of a long many-seeded pod divided into numerous cells; and although many of the Cape *Sophoræ* do indeed approach *Pultenæa* in their fruit, the last mentioned genus is essentially distinguished from them, and all others we have hitherto seen, by the two appendages to the calyx, affixed either to its base or sides.

We received a living specimen of this plant from Mr. Alexander Murray, gardener to Benjamin Robertson, Esq. at Stockwell, who raised it late in the autumn of 1792 from seeds brought from New South Wales. It first flowered in April 1794.

The stem is shrubby, variously branched, round; the wood hard and whitish; bark brown, covered more or less with withered bristly *stipulæ*: branches long and straight, pointing upwards, clothed with leaves, and terminated by round heads of handsome yellow inodorous flowers. The leaves surround the branches in great



numbers without any regular order, and are linear, very narrow, tipped with a little sharp point, entire, smooth, without any projecting vein or nerve, most frequently ciliated with fine stiff hairs. *Footstalks* very short, pale and smooth, erect at night, by which the leaves become closely pressed to the branch, and imbricated one over the other, though in the day time, and especially in bright sunshine, they spread horizontally. The very remarkable *stipulae* stand solitary just above the insertion of each footstalk, erect, and close-pressed to the branch, whose bark they by that means completely conceal; they are brown, of a chaffy texture, lanceolate, cloven and sometimes laciniated, furnished with two parallel nerves. The *flowers* are about twenty or more, in a round head, among spreading leaves, and the branch they at first terminate is at length sometimes protruded beyond them, by which they become verticillate; each stands on a short, round, smooth flowerstalk, with *bracteae* like the leaves, but smaller, and likewise accompanied with stipulae. *Calyx* slightly campanulate, red, divided half way down into five acute, spreading, ciliated teeth, of which the two uppermost are the shortest and broadest; between them and the next pair stand the two appendages which make a material part of the generic character, and which agree exactly in appearance with the proper teeth, except in being somewhat narrower, and inserted, one on each side, about half way down the entire part of the calyx, to which their lower end is closely applied, so that they make the calyx appear to



have seven teeth of equal length. *Corolla* of five petals. *Standard* with a firm horizontal claw, its limb erect, round, slightly notched, the two sides generally folded together, deep yellow, with a red semicircular line near the base. *Wings* nearly linear, obtuse, concave, with a large tooth at the base, deep yellow, horizontal, much shorter than the standard. *Keel* of two pale yellow, obovate, concave petals, as long as the wings, strongly connected by their lower edge, and with a tooth near their base on the upper. *Stamina* all nearly equal, somewhat shorter than the keel, a little declining; *filaments* inserted into the receptacle, cylindrical, tapering to a point; *antheræ* small, roundish. *Germen* small, green, oval, smooth, tipped with a tuft of white hair, and containing the rudiments of two or three seeds; *style* longer than the stamina, subulate, recurved, smooth; *stigma* acute. *Pod* scarcely longer than the calyx, roundish, pointed, turgid, brown, hairy at the extremity, of one cell, containing two *seeds* on short footstalks, inserted into the upper edge of each valve near the base.

The plant appears to abound with mucilage, especially the leaves.

#### EXPLANATION OF TAB. XII.

1. A Leaf with its stipula. 2. Floral leaf and the stipula which accompanies it. 3. Calyx. 4. Its appendages. 5. Standard. 6. A Wing. 7. Keel. 8. Stamina and Pistillum. 9. Pistillum alone. 10. Rudiments of Seeds. 11. Pod invested with the permanent calyx.



No. 1

Bot. New Holland

B. G. L.





*Eucalyptus robusta.*



## EUCALYPTUS robusta.

Brown Gum Tree, or New Holland Mahogany.

See *Leaves of the Eucalyptus*  
Vol. 3. p. 283.



## ICOSANDRIA MONOGYNIA.

GEN. CHAR. *Cal.* superus, persistens, truncatus, ante anthesin tectus *operculo* integerrimo, deciduo. *Cor.* nulla. *Caps.* quadrilocularis, apice dehiscens, polysperma.

*Cal.* superior, permanent, truncated, covered before flowering with an entire *lid*, soon falling off. *Cor.* none. *Caps.* of 4 cells, opening at the top, containing many *seeds*.

SPEC. CHAR. *E.* operculo conico medio contracto, umbellis lateralibus terminalibusque; pedunculis pedicellisque compressis.

Lid conical, contracted in the middle. Umbels lateral and terminal: general and partial flower-stalks compressed.

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THE genus of *Eucalyptus*, established by the celebrated French botanist M. L'Heritier, of whose fate amid the present dreadful convulsions of his country we have

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for some time been ignorant, was first published in the *Hortus Kewensis*, vol. 2. 157. The original species there mentioned is named *obliqua*, and a figure of it is given in M. L'Heritier's *Sertum Anglicum*, tab. 20; but the description has not yet appeared. Having lately received specimens from New South Wales of five more very distinct species, we shall now attempt to characterize them, first describing more fully that exhibited in our plate.

*Eucalyptus robusta* is one of the largest and loftiest of trees, frequently 100 feet in height; its wood hard, heavy and strong, of a reddish colour, and abounding with resin. *Branches* round below, covered with smooth bark, very angular towards the extremity. *Leaves* alternate, on footstalks, firm, smooth, with a strong rib and fine parallel veins, ovate, pointed, entire, generally oblique, and often a little unequal at the base, but not universally so. *Stipulae* none. *Umbels* on flower-stalks, frequently from the axillæ of the leaves, and solitary, sometimes two or more together, forming a sort of alternate *racemus*, and sometimes such *racemi* terminate the branches. *Bractæe* none. *General flower-stalk* an inch or more in length, compressed, two-edged, dilated upwards; *partial ones* about eight or ten together, nearly of the same form, but much shorter, single-flowered, dilated into the base of the calyx. *Flowers* yellowish, occasionally with a red tinge. *Calyx* obconical, sometimes round, often two- or even four-edged, entire; *lid* rather more than equal to it in length, swelling above the base, then suddenly con-



tracted, and terminating in a blunt, slightly curved, conical point. When the lid falls off, it discloses numerous *stamina*, which soon spread very wide. The *style* stands on four cross ribs in the centre of the flower, which crown the germen; it is club-shaped, compressed or angular; *stigma* simple; *germen* in the bottom of the calyx. We have not seen the fruit ripe. Every part of this plant, and indeed of every other *Eucalyptus* we have examined, is void of all pubescence. This is not so highly aromatic as some other species, though very perceptibly so when rubbed, and it is likewise astringent and acrid. Its resin is an inferior sort of red gum, of a brown hue. The size and strength of the tree, like that of the European *Quercus Robur*, seem peculiarly to justify the name *robusta*.

#### EXPLANATION OF TAB. XIII.

1. 1. A young flower. 2. Calyx. 3. Lid. 4. Stamina not full grown. 5. A complete stamen. 6. Style.
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#### CHARACTERS OF SOME OTHER SPECIES.

2. *E. tereticornis*, operculo conico tereti lævissimo calyce triplo longiori, umbellis lateralibus solitariis.  
Lid conical, round, very smooth, thrice as long as the calyx. Umbels lateral, solitary.



The *lid* of this species is remarkably smooth and polished, not wrinkled even in the dry specimen; it often breaks off a little above the base, leaving its thin lower part like a loose ring round the *calyx*. The *leaves* are lanceolate.

3. *E. capitellata*, operculo conico calyceque anguloso subancipiti, capitulis lateralibus pedunculatis solitariis.

Lid conical, and, as well as the calyx, angular, and somewhat two-edged. Heads of flowers lateral, solitary, on flower-stalks.

The *leaves* are ovato-lanceolate, firm, astringent, but not very aromatic. We have seen no other species in which the *flowers* stand in little dense heads, each flower not being pedicellated so as to form an umbel. The *lid* is about as long as the *calyx*. *Flower-stalk* compressed, always solitary and simple.

The fruit of this species, standing on part of a branch whose leaves are fallen off, is figured in Mr. White's *Voyage*, page 226, along with the leaves of the next species.

4. *E. piperita*, operculo hemisphærico mucronulato, umbellis lateralibus subpaniculatis solitariisve; pedunculis compressis, ramulis angulatis.

Lid hemispherical, with a little point. Umbels lateral, somewhat paniculated, or solitary; flower-stalks compressed. Young branches angular.



SYN. *E. piperita*, *White's Voy.* p. 226, figure of the leaves only.

A fine essential oil, much like that of Peppermint, is obtained from this species, and every part of the dried plant exhales the same odour when rubbed.—We are now convinced this is distinct from the following, having compared the flowers of both. At the same time we have observed the minute white spots on the leaves (*White's Voy.* 228.) in *E. piperita*, as well as in the other.

5. *E. obliqua*, operculo hemisphærico mucronulato, umbellis lateralibus folitariis; pedunculis ramulisque teretibus.

Lid hemispherical, with a little point. Umbels lateral, solitary: flower-stalks and young branches round.

SYN. *E. obliqua*, *Ait. Hort. Kew.* v. 2. 157. *L'Herit. Sert. Angl. t.* 20.

From the only specimen we have seen of this, which is in Sir Joseph Banks's herbarium, it appears the *branches* are all round to the very top. *General flower-stalks* round, the *partial ones* only slightly angular, not compressed. *Bark* rough from the scaling off of the cuticle, but this may be an unnatural appearance. *Leaves* ovato-lanceolate, aromatic, but without the flavour of peppermint.

6. *E. corymbosa*, operculo hemisphærico mucronulato, umbellis corymbofo-paniculatis terminalibus.



Lid hemispherical, with a little point. Umbels panicled in a sort of terminal corymbus.

This, when in flower, is the most magnificent of its genus. The *leaves* are lanceolate, astringent and acrid, but scarcely at all aromatic. *Flower-stalks* all compressed. *Lid* somewhat membranous.

---

All the species are destitute of hairiness or pubescence, the *leaves* simple, lanceolate, or ovato-lanceolate, pointed, entire, most frequently oblique, and often unequal at the base, on angular *footstalks*, without *stipulae*. *Stamina* very numerous. *Style* and *stigma* simple.

There seems to be another species in the gardens, with narrow leaves, the young ones of a rich purple, but its flowers are as yet unknown.



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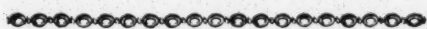


*Symplocia tubiflora.*

*Symplocia tubiflora.* 1795. by A. Sowerby. No. 2. Almond Place. London.



## STYPHELIA tubiflora.

*Crimson Styphelia.*

PENTANDRIA MONOGYNIA. *Fl. inferior, of 1 petal,*  
*with seed-vessels.*

GEN. CHAR. *Cal. imbricatus. Cor. tubulosa. Stam.*  
*fauci inferta. Drupa quinquelocularis. Semina bina.*

*Cal. imbricated. Cor. tubular. Stam. inserted into*  
*its orifice. Drupa of 5 cells, with 2 seeds in each.*

SPEC. CHAR. *S. corolla clavata longissima: limbo revo-*  
*luto hirsuto, floribus axillaribus solitariis, foliis obo-*  
*vato-linearibus.*

Corolla club-shaped, very long; limb revolute and  
hairy. Flowers axillary, solitary. Leaves linear,  
slightly obovate.

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IT has lately been a complaint among cultivators of  
plants, that the vegetable productions of New Holland,



however novel and singular, are deficient in beauty. We do not think the censure by any means just in general; and if it were so, the shrub here delineated might atone for a multitude of unattractive ones, by its own transcendent elegance, as well as by its resemblance to the favourite *Erica tubiflora*. We hope it will one day be introduced into our gardens, and remain a perpetual assertor of the botanical honour of its country.

Our figure is taken from a drawing, obligingly communicated by the late Major Ross, and assisted by very magnificent specimens from Mr. White. This species escaped the observation of Sir Joseph Banks and Dr. Solander, though several others of the same genus, which is an extensive one, were brought to Europe by them, as well as by Dr. Forster. The latter confounded the genus with his *Epacris*, as did the younger Linnæus after him; a mistake which Gærtner corrected, and called our *Styphelia* by the name of *Ardisia*; but that denomination having been previously given by Dr. Swartz and Mr. Aiton to another plant, we adopt Dr. Solander's original name, *Styphelia*, derived from *στυφλός* harsh, hard or firm, expressive of the habit of the whole genus, and indeed of the whole natural order.

This shrub forms a thick bush, two or three feet in height, variously branched, firm and rigid in all its parts; the *branches* round, downy when young. *Leaves* scattered, sessile, spreading, of a narrow obovate figure, entire, tipped with a spine, smooth, marked with many



parallel veins beneath. *Stipulae* none. *Flowers* about the middle of the branches, axillary, solitary, spreading, on very short, downy *flower-stalks*, furnished with two or three minute, pungent, downy *bractæ*. *Calyx* imbricated, smooth, striated, pungent; the five innermost leaves lanceolate, nearly equal; the three, four or five outer ones much shorter, broader, and gradually less. *Corolla* four times as long as the calyx, crimson, tubular, swelling upwards, externally smooth, internally very hairy, especially just above the base; *limb* in five linear, revolute, hairy segments. *Stamina* alternate with those segments, and inserted at their base, projecting, simple, smooth; *antheræ* versatile, incumbent. *Germen* small, globular, furrowed, smooth, invested at the base with a sort of entire membrane, probably the *nectarium* of Solander; *style* capillary, longer than the stamens; *stigma* small, obscurely notched, smooth. *Fruit* an oval smooth *drupa*, which we have only seen half-ripe, but in that state it plainly exhibited the generic character.

#### EXPLANATION OF TAB. XIV.

1. Flower-stalk, bractæ and calyx.
2. Calyx leaves.
3. A flower opened.
4. A magnified stamen.
5. Germen magnified, with its membrane.
6. Half-ripe fruit of its natural size.



The other species which we have been able with certainty to determine, though we have incomplete specimens, or drawings, of several more, are

2. *S. ericoides*, corollæ limbo patente hirsutissimo, racemis axillaribus brevissimis erectis, foliis lanceolato-ellipticis revolutis.  
Limb of the corolla spreading, very hairy. Clusters axillary, very short, erect. Leaves elliptical, somewhat lanceolate, revolute.
3. *S. strigosa*, corollæ limbo patente imberbi: fauce pilosa, racemis axillaribus terminalibusque brevissimis erectis, foliis subulatis.  
Limb of the corolla spreading, naked; the orifice hairy. Clusters axillary and terminal, very short, erect. Leaves awl-shaped.
4. *S. scoparia*, corollæ limbo concaviusculo imberbi, racemis axillaribus brevissimis recurvis, foliis linearilanceolatis.  
Limb of the corolla somewhat concave, naked. Clusters axillary, very short, recurved. Leaves linear-lanceolate.
5. *S. daphnoides*, corollæ limbo patente subpubescenti, floribus axillaribus solitariis, foliis ellipticis concaviusculis.



Limb of the corolla spreading, flightly downy. Flowers axillary, solitary. Leaves elliptical, a little concave.

6. *S. lanceolata*, corollæ limbo revoluta hirsuto, racemis aggregatis terminalibus, foliis lineari-lanceolatis. Limb of the corolla revolute, hairy. Clusters aggregate, terminal. Leaves linear-lanceolate.

SYN. *Epacris juniperina*, Linn. Suppl. 138.

— — fasciculata, Forst. Prod. 13. Gen. 10.

*Ardisia acerofa*, Gartn. Sem. vol. 2. 78. t. 94. f. 2?

This in good fair specimens has no resemblance to Juniper, and the term *acerofa* is applicable to almost every species, as is that of *fasciculata* likewise to the following. We have therefore been obliged to find a name which might not mislead.

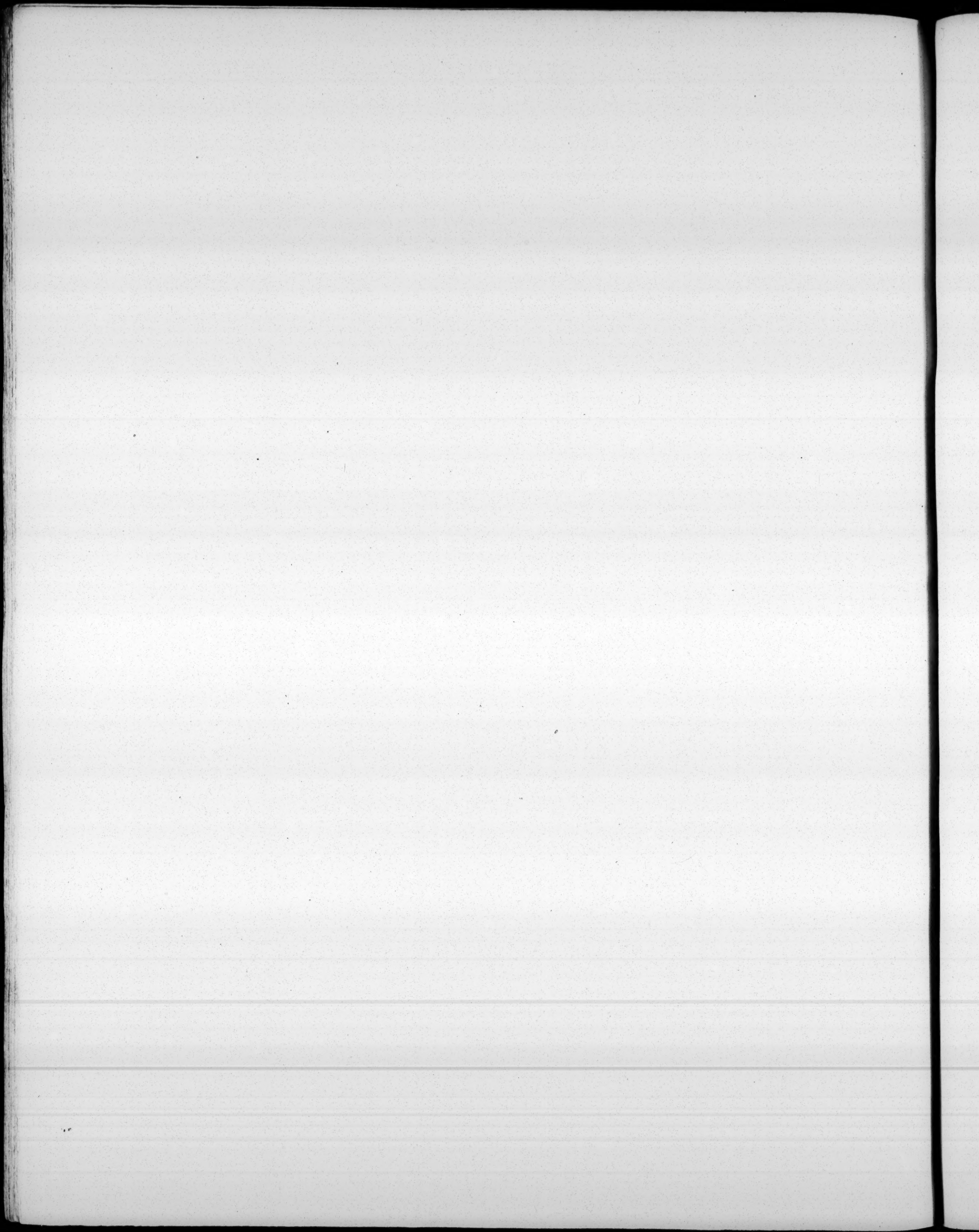
7. *S. elliptica*, corollæ limbo patente imberbi, racemis aggregatis subterminalibus, foliis lanceolato-ellipticis.

Limb of the corolla spreading, naked. Clusters aggregate, mostly terminal. Leaves elliptical, somewhat lanceolate.

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All these species have the leaves tipped with a sharp point, which in *S. daphnoides* is less pungent than in the rest.







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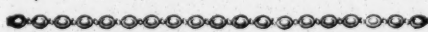


*Mimosa myrtifolia.*

Published June 1, 1892, by J. D. Sowerby, No. 2, Abchurch Lane, London.



## MIMOSA myrtifolia.

*Myrtle-leaved Mimosa.*

## POLYGAMIA MONOECIA.

GEN. CHAR. Hermaphr. *Cal.* quinquedentatus. *Cor.* quinquefida. *Stam.* 5 five plura. *Pist.* 1. *Legumen.* Masc. *Cal.* *Cor.* *Stam.* ut in hermaphr.

Hermaphrodite fl. *Cal.* five-toothed. *Cor.* five-cleft.  
*Stam.* 5 or more. *Pist.* 1. Fruit a *pod*.  
 Male, *Cal.* *Cor.* and *Stam.* like the hermaphr.

SPEC. CHAR. *M. foliis simplicibus elliptico-lanceolatis obliquis margine cartilagineis integerrimis, capitulis axillaribus racemosis, leguminibus linearibus margine incrassatis.*

Leaves simple, elliptico-lanceolate, oblique, entire, cartilaginous in the margin. Heads of flowers in axillary racemi. Pods linear, with a thick edge.

SYN. *Mimosa myrtifolia.* *Transf. of Linn. Soc. v. 1. 252.*



THIS shrub is now not uncommon in our green-houses, having been raised in plenty from seeds brought from Port Jackson. It generally bears its fragrant flowers late in the autumn, and might then at first sight be sooner taken for a *Myrtus* than a *Mimosa*.

It grows to the height of three or four feet, the *branches* alternate, upright, angular, with a very tough, smooth *bark*. *Leaves* of the young seedlings in pairs, pinnated; their leaflets oval: but when the stem rises, the common footstalks of its leaves become dilated, the leaflets cease to appear, and the whole shrub is ever after furnished with such dilated naked footstalks, which we beg permission to call leaves, because they undoubtedly to all intents and purposes are so; these are alternate, vertical, lanceolate, narrow at each extremity, tipped with a little sharp point, entire and cartilaginous in the margin, smooth, firm, glaucous. *Stipule* none. On their upper edge near the base is a small concave gland. *Racemi* axillary, solitary, erect, of about six alternate heads, each of three or four small white *flowers*, whose *calyx* has only four segments, and the *corolla* four petals. The *stamina* are very numerous. *Germen* roundish; *style* and *stigma* simple. *Pod* linear, pointed, zigzag, brown, with a very thick margin. *Seeds* about six, oblong.

#### EXPLANATION OF TAB. XV.

1. A flower in front. 2. The same seen behind, magnified. 3. A stamen. 4. Germen, natural size and magnified. 5. Pod open, natural size. 6. A seed.









*Mimosa hispida.*



**MIMOSA hispida.**

*Little harsh Mimosa.*



SPEC. CHAR. *M. foliis simplicibus ellipticis obliquis utrinque margineque scabris, ramulis hispido-pubescentibus, capitulis solitariis.*

Leaves simple, elliptical, oblique, rough on each side and at the margin. Young branches clothed with short harsh down. Heads of flowers solitary.

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A more extraordinary *Mimosa* than even the preceding. We know no other species that has so much asperity about it; certainly every other simple-leaved one yet discovered is perfectly smooth. It has not appeared in the gardens, nor were any specimens sent till last year.

It seems to form a thick rigid bush, the *branches* numerous, alternate, spreading, round, very rough with a short, dense, rigid pubescence, especially when young. *Leaves* alternate, apparently vertical, sessile, elliptical, oblique, pointed, entire, extremely harsh with minute,



prominent, scattered points, especially on the rib and the cartilaginous margin, so that they might be called denticulate. *Stipulae* in pairs, very minute, triangular, membranous. *Flowers* pale yellow, many together in little round heads, which stand solitary, on rough axillary *flower-stalks* shorter than the leaves, destitute of *bractea*. *Calyx* in four segments, ciliated. *Petals* four, concave. *Pod* compressed, broadish in proportion to its length.

#### EXPLANATION OF TAB. XVI.

1. Back of a magnified flower.
2. A stamen.
- 3, 3. Two pods, copied from a drawing done at Port Jackson.
4. A stipula magnified.



